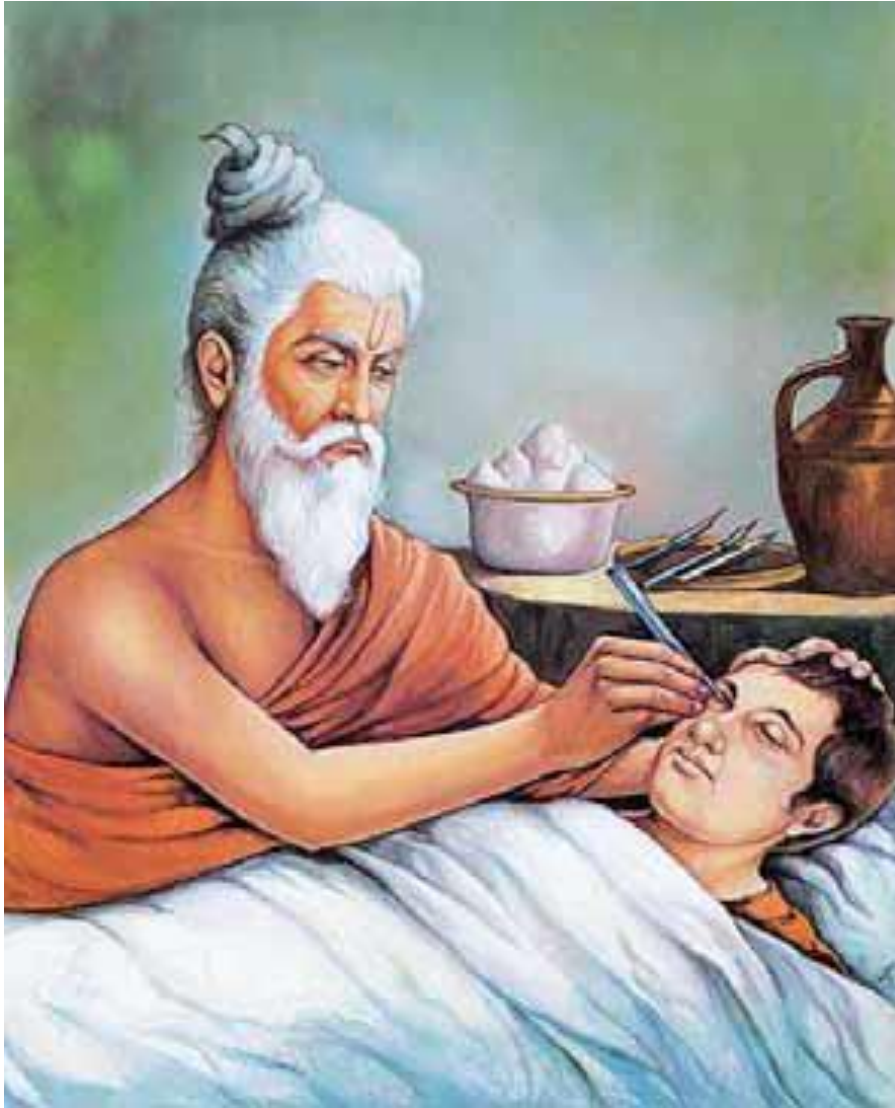


The History of Cataract Surgery

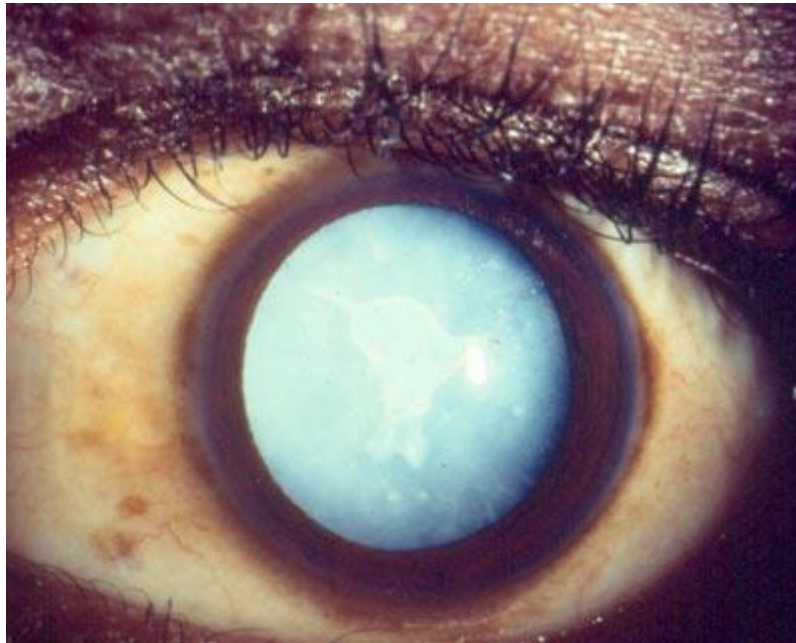


Paul Herrick U3A 7th August

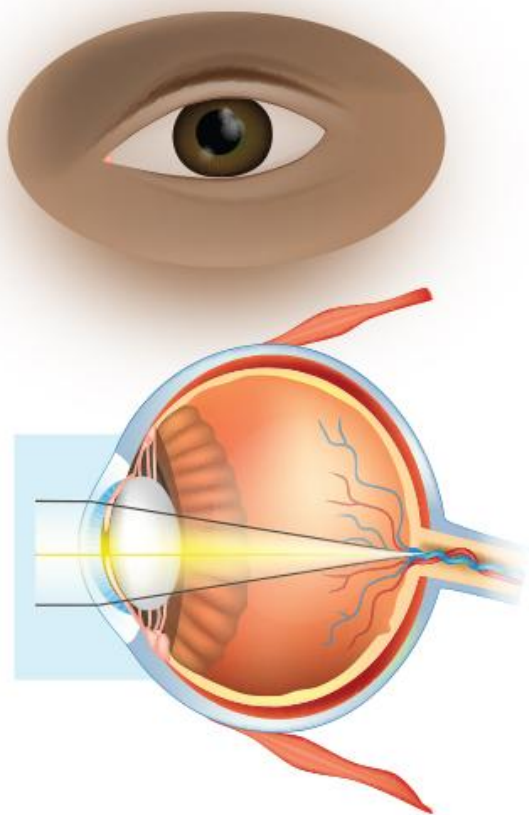
Cataract

Latin-- Cataracta –waterfall

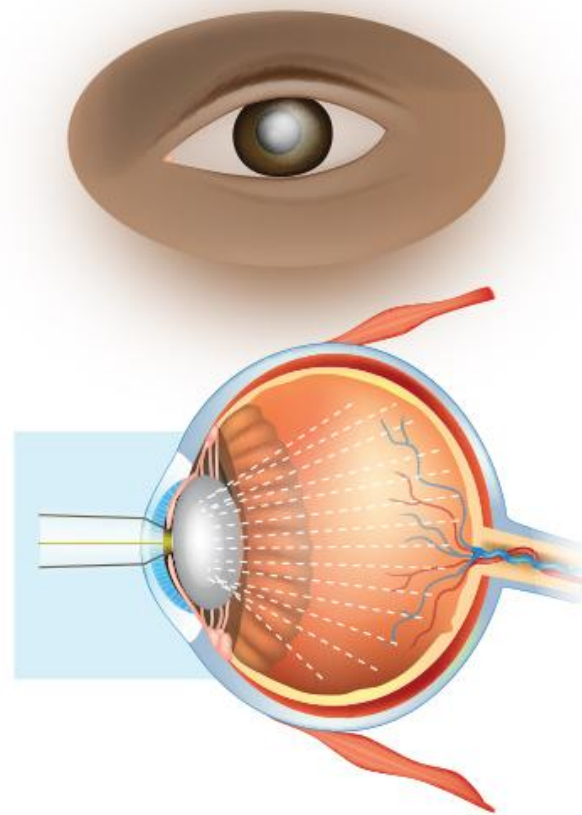
Greek--καταρράκτης
(*katarrhaktēs*)-



Normal Eye

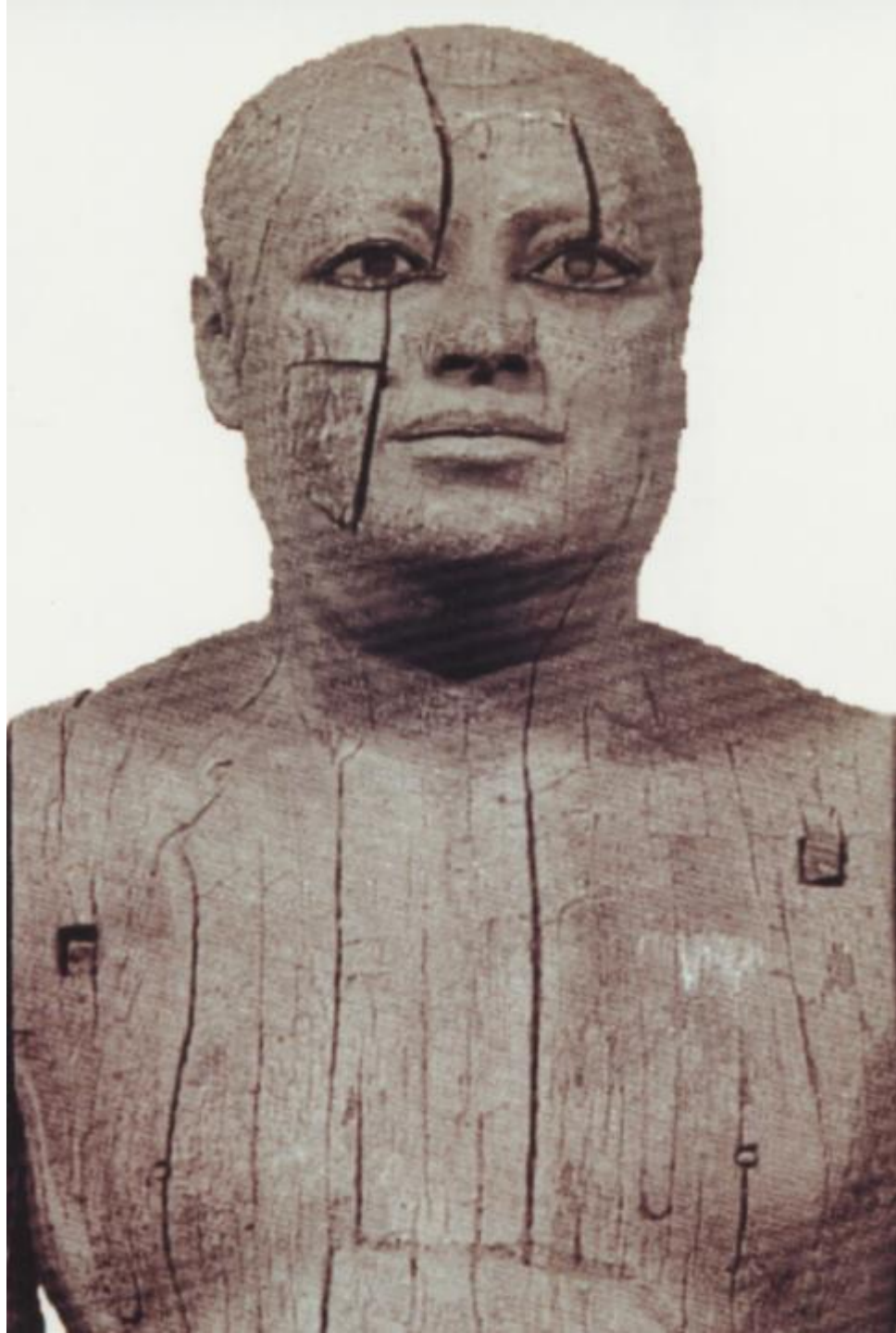


Cataract Eye



Statue of Ka-aper c 2460 BCE in
the Egyptian museum Cairo





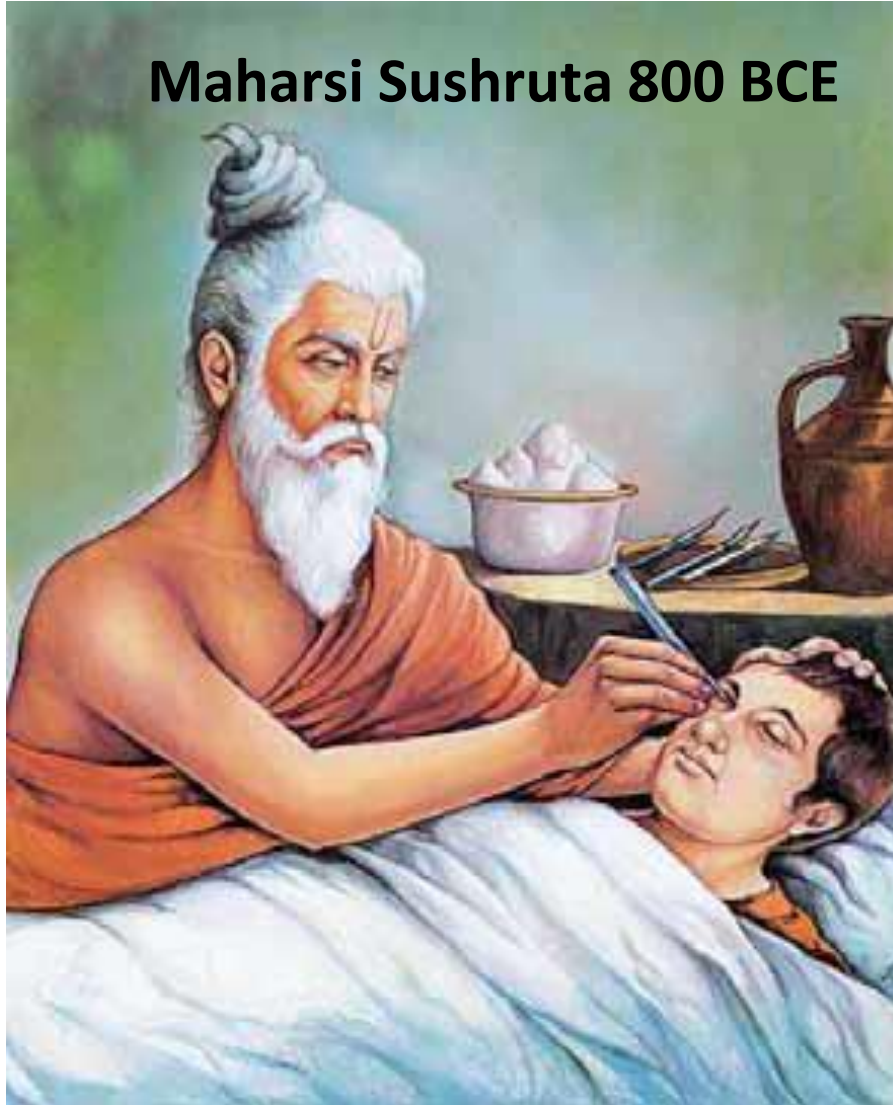
The Code of Hammurabi



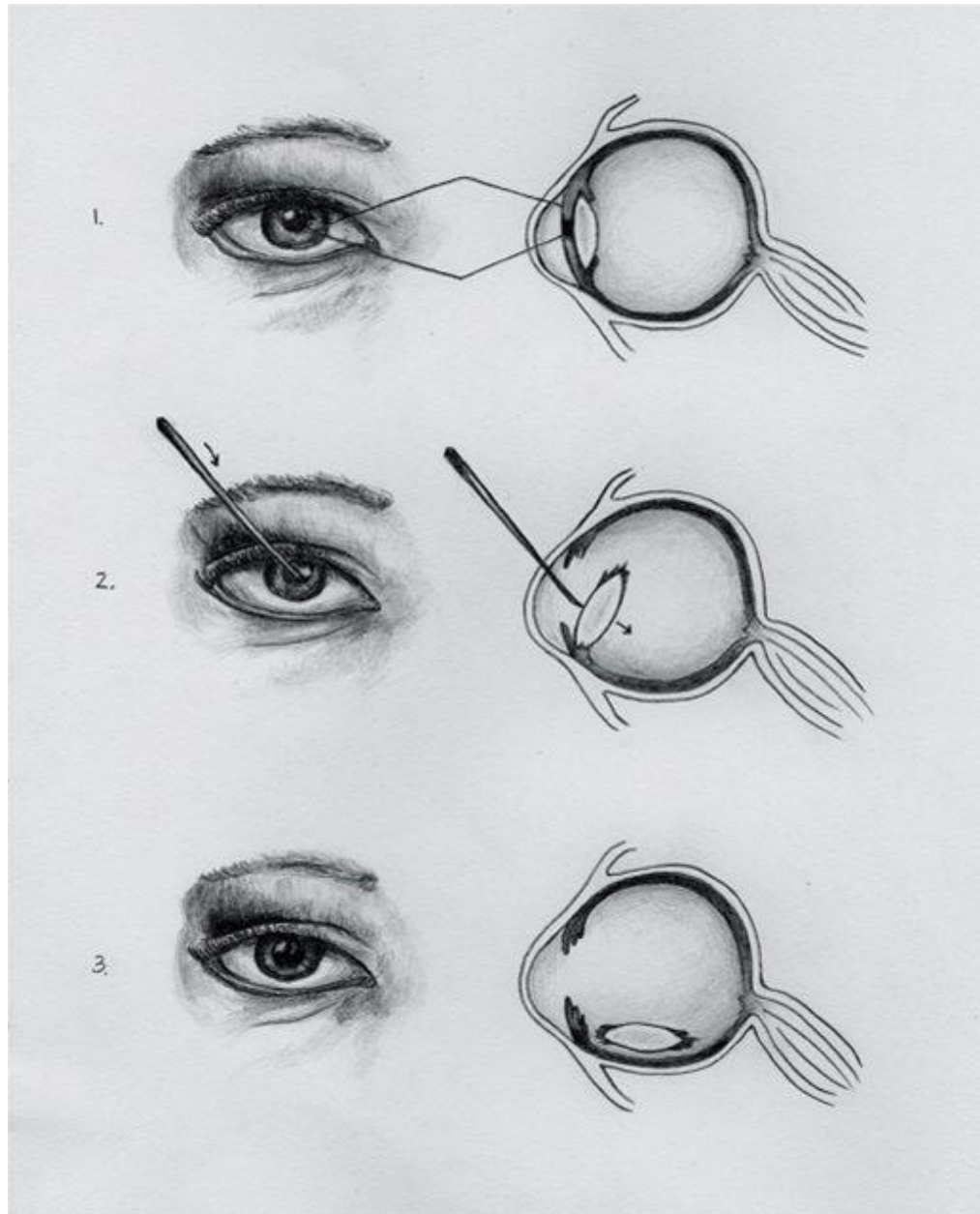
Wall painting at Thebes c1200 BCE



Maharsi Sushruta 800 BCE



Couching Cataract



Copper needles c. 2700 BCE



John Taylor 1703-1770

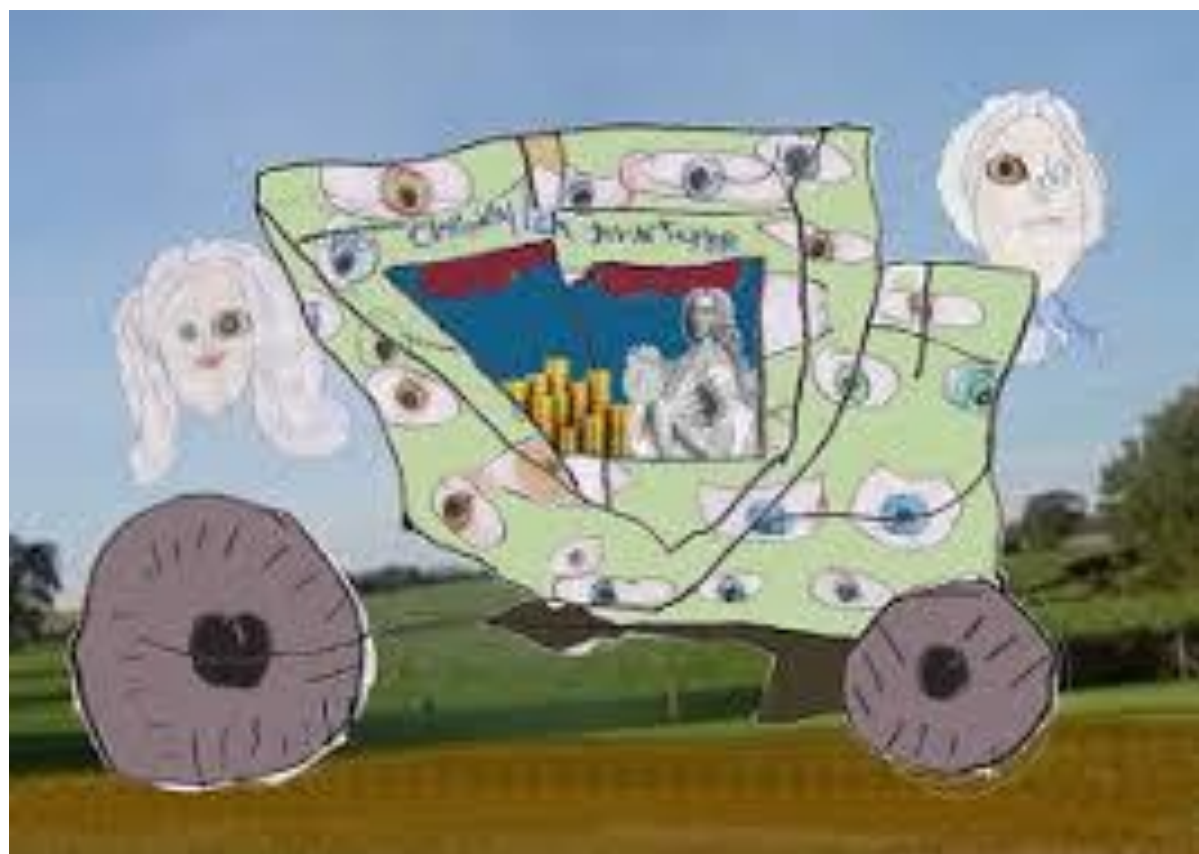


CHEVALIER JOHN TAYLOR
England's Early Oculist

Pretender or Pioneer?



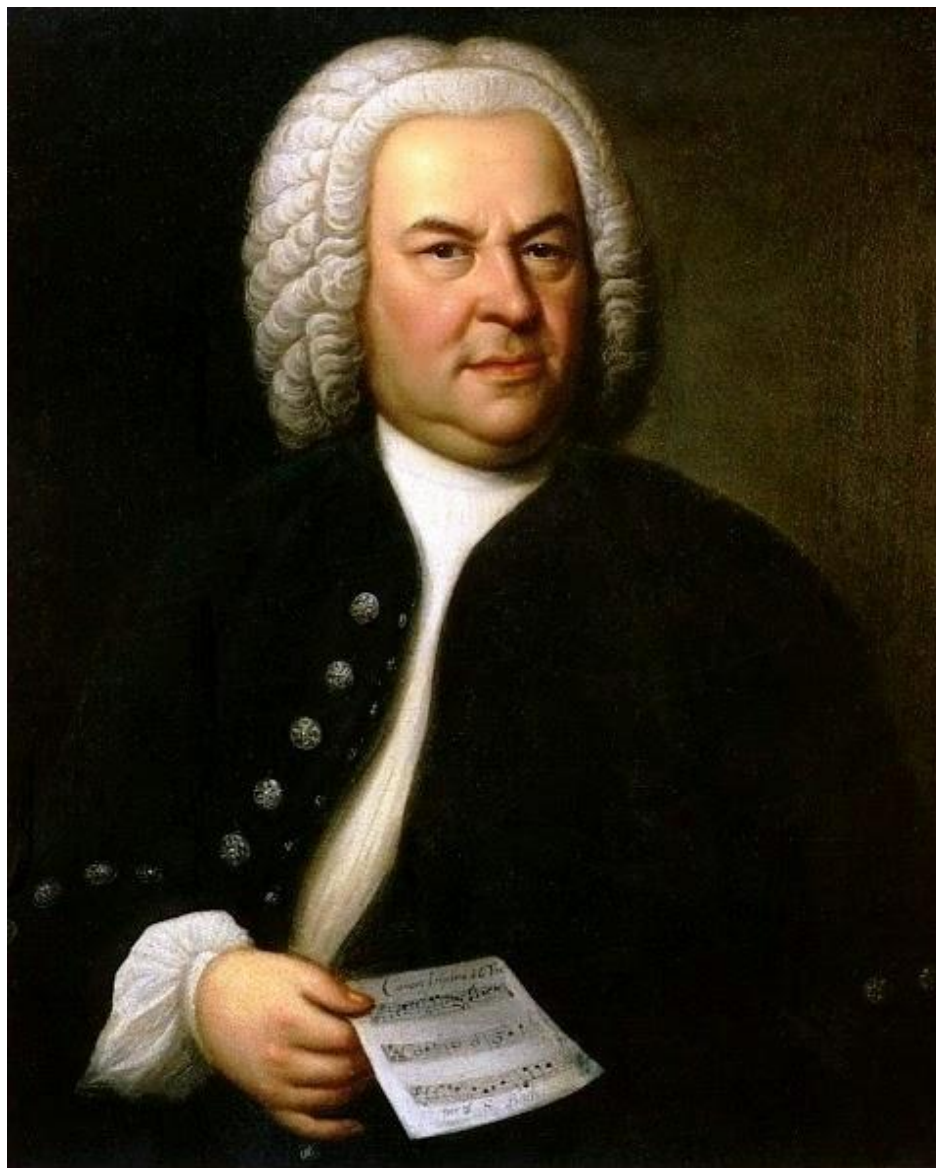
Daniel M. Albert, MD, MS
Sarah L. Atzen, BA, MLIS



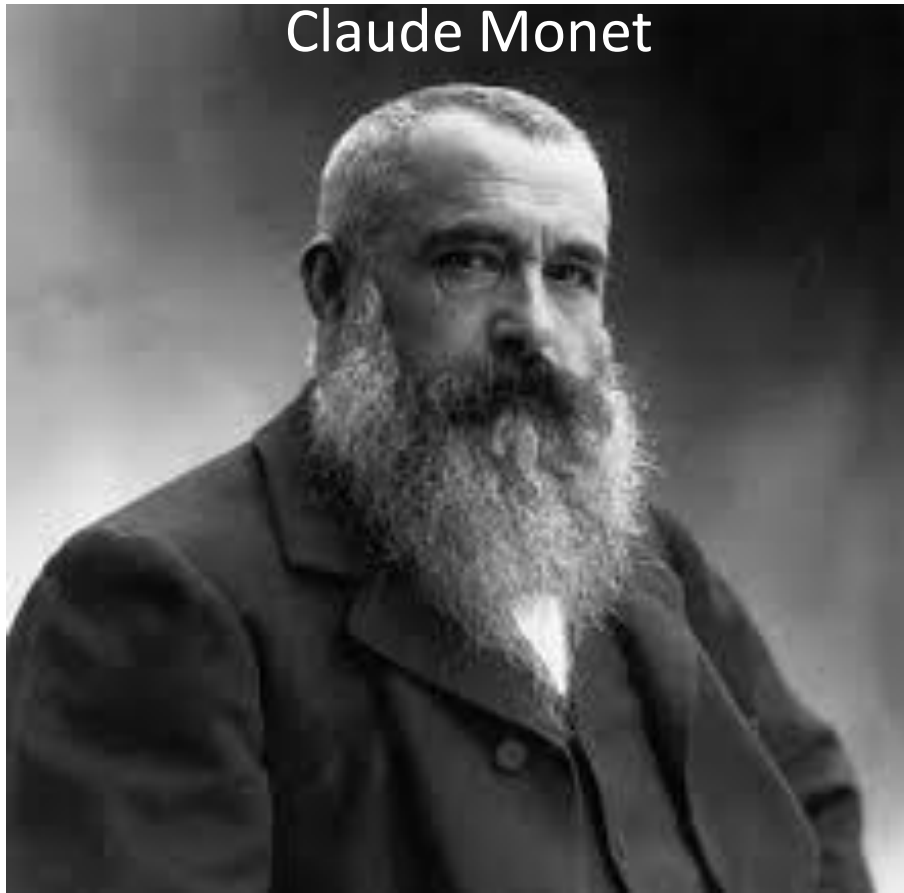
John Taylor 1703-1770



J S Bach 1685-1750



Claude Monet





Claude Monet (1840-1926. France). *The Japanese Footbridge and the Water Lily Pool, Giverny*. 1899.
https://commons.wikimedia.org/wiki/File:Claude_Monet_-_Water_Lilies_and_Japanese_Bridge.jpg

The Japanese Bridge at Giverny 1922



Dr Charles Coutela 1876-1969



Waterlilies 1915



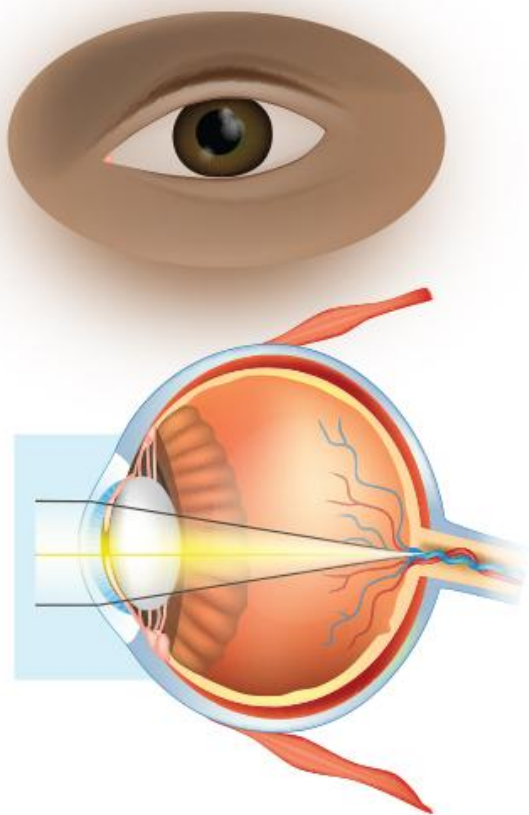
Simulated view before
cataract surgery 1923



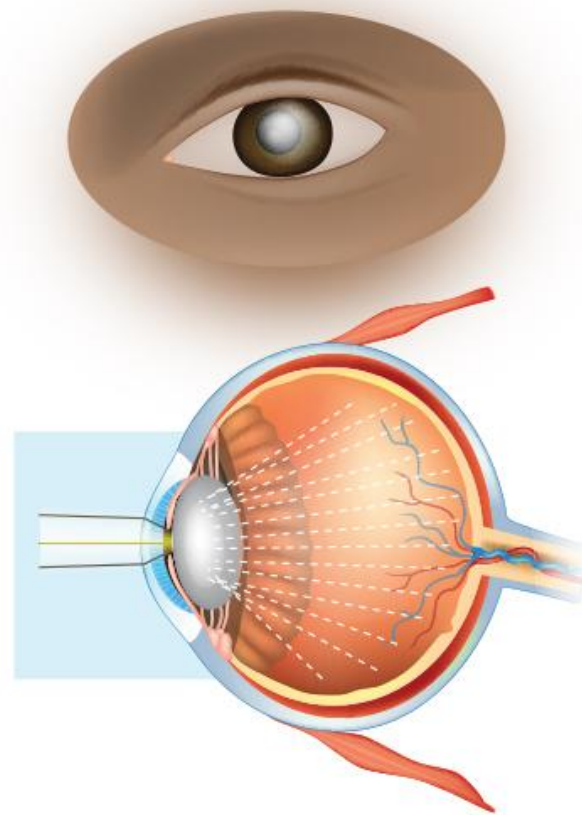
Morning with weeping willows after surgery 1923



Normal Eye

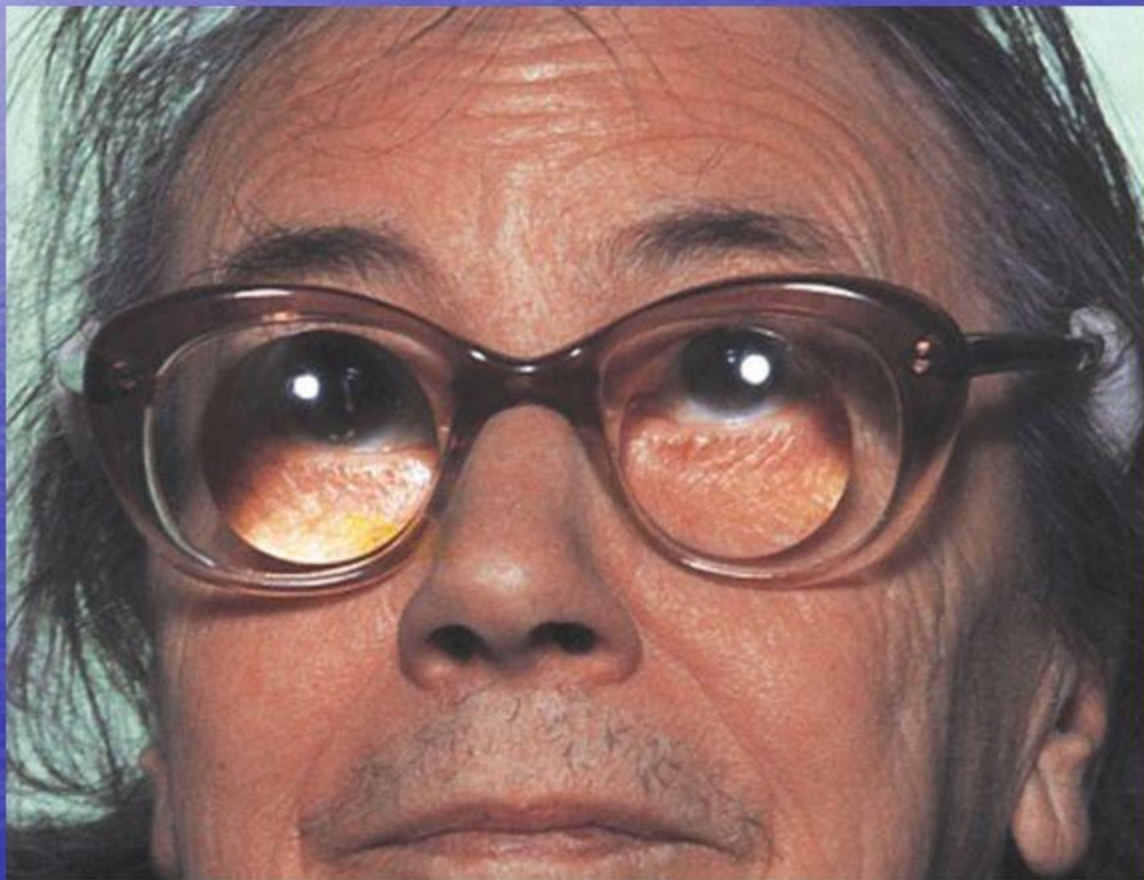


Cataract Eye



Before IOL implantation was developed

- Aphakic spectacles
- Contact lenses



Sir Harold Ridley's Intra ocular lens 1950



Perspex Canopy of a Spitfire



Intraocular lenses



Fred Hollows 1929-1993

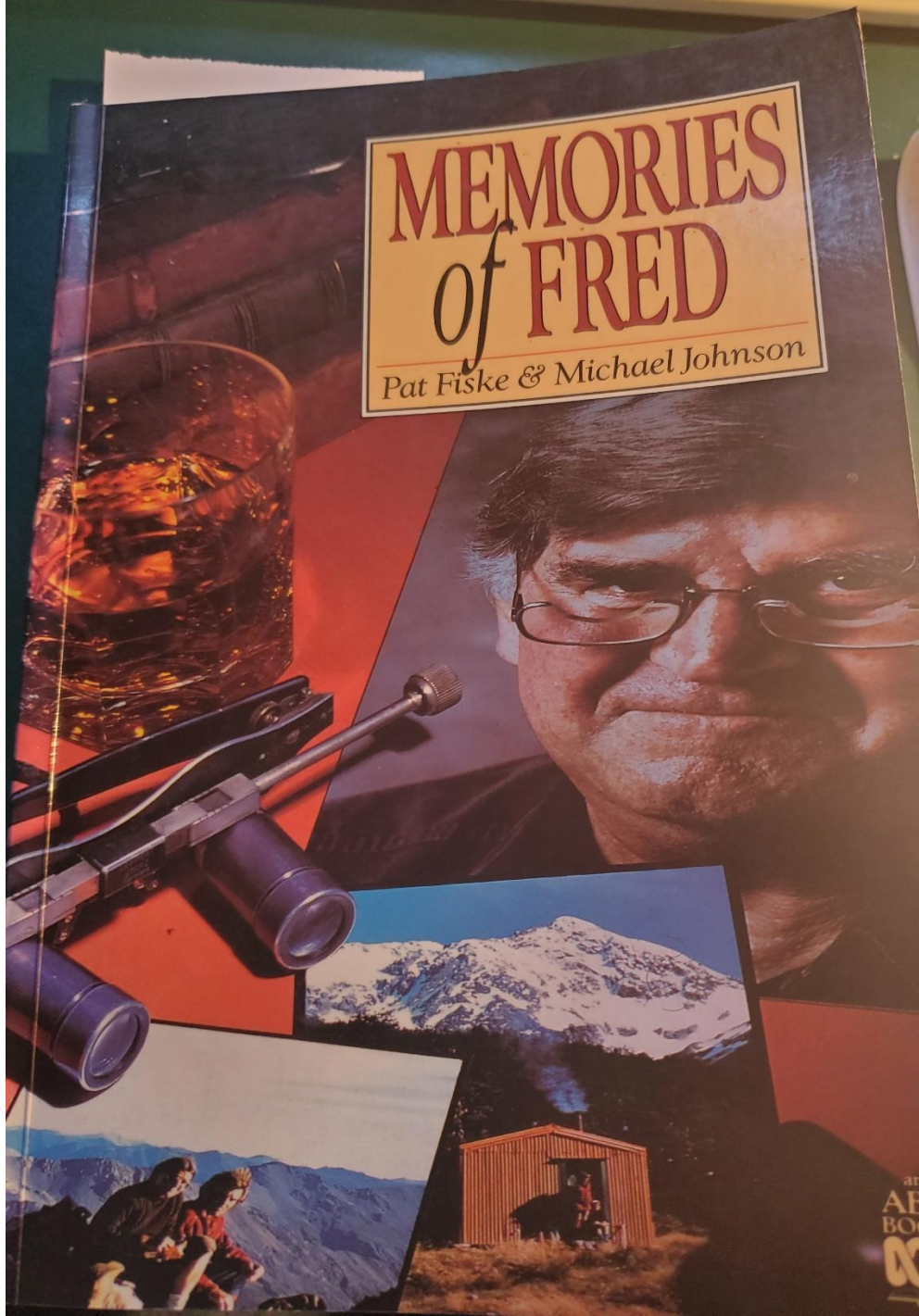


**Australian
Ophthalmologists:
Andrew Laming, Fred
Hollows, Norman
Gregg, Ian Constable**

Books LLC

MEMORIES *of* FRED

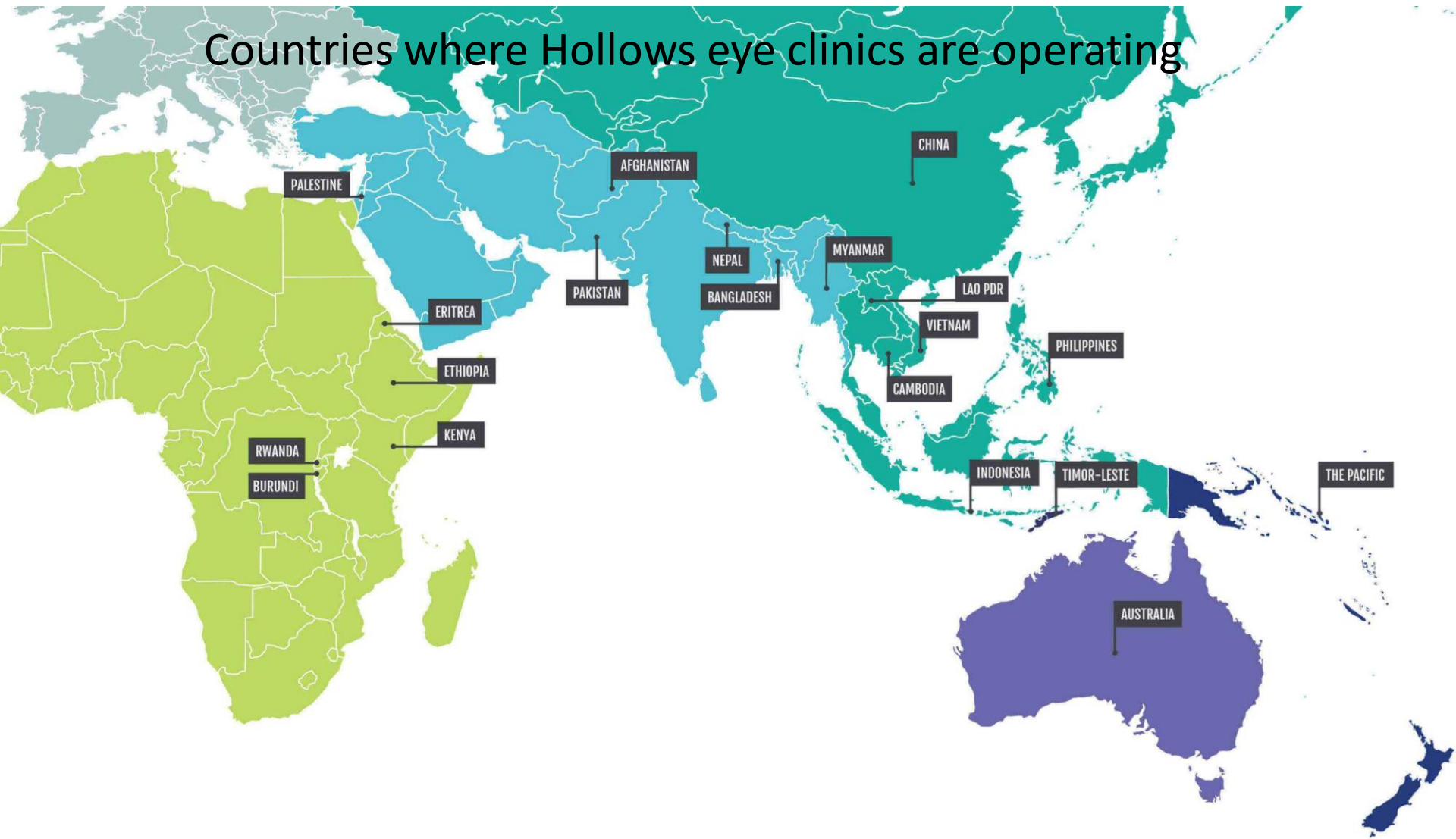
Pat Fiske & Michael Johnson







Countries where Hollows eye clinics are operating



NZ Hollows Foundation

Where we work

Papua New Guinea

Solomon Islands

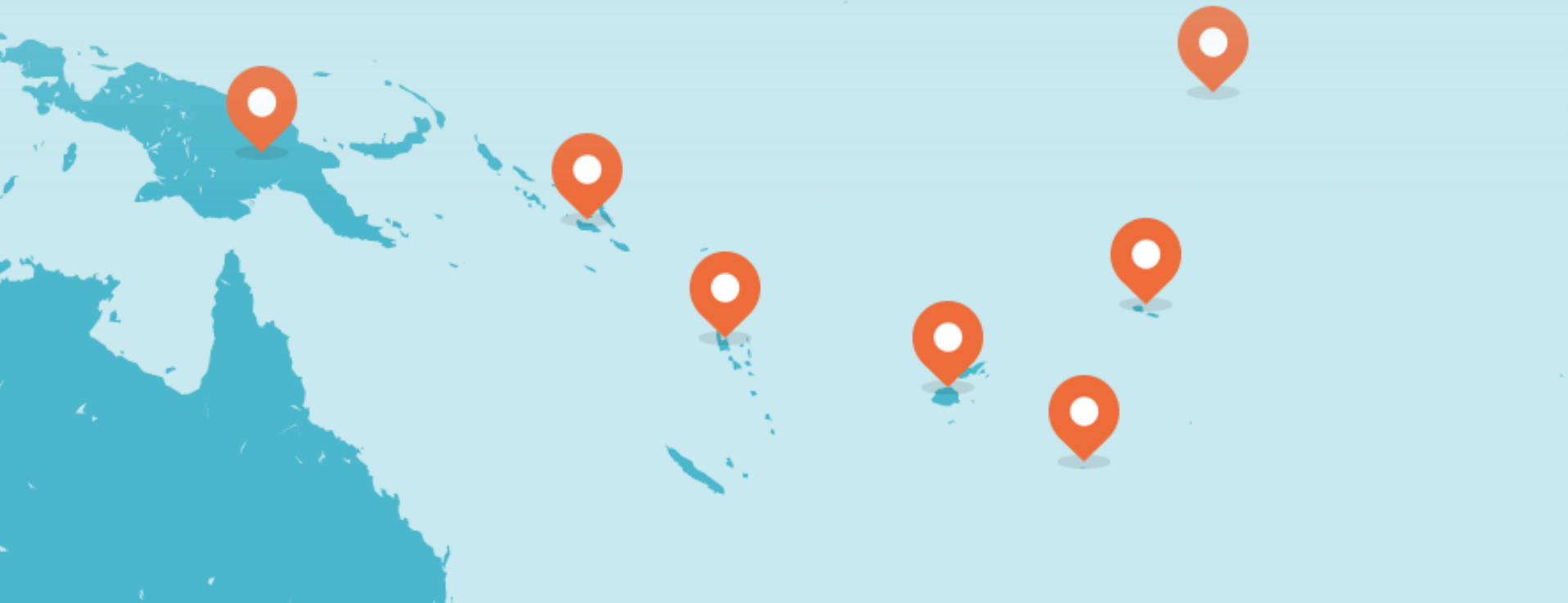
Vanuatu

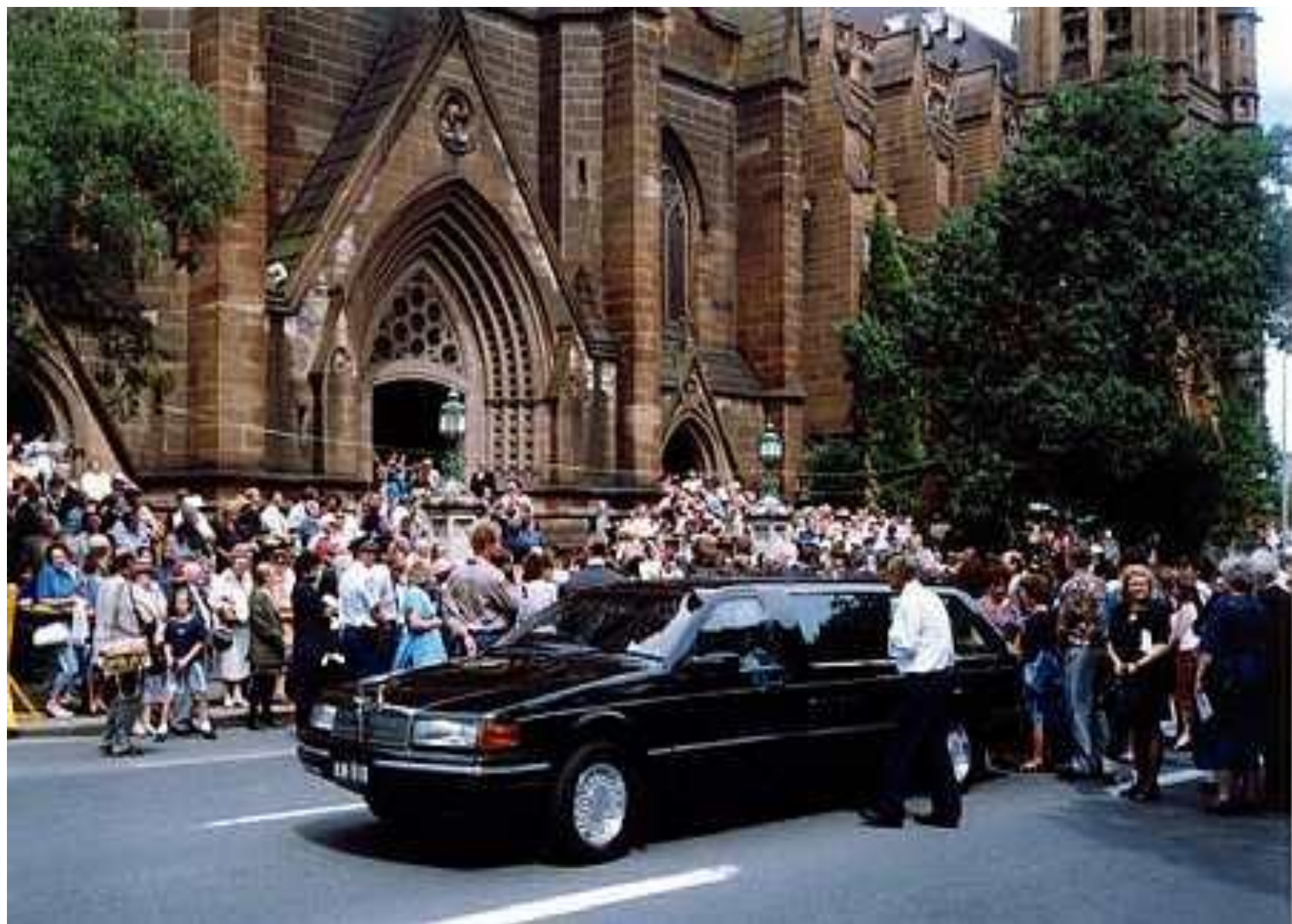
Fiji

Tonga

Samoa

Kiribati





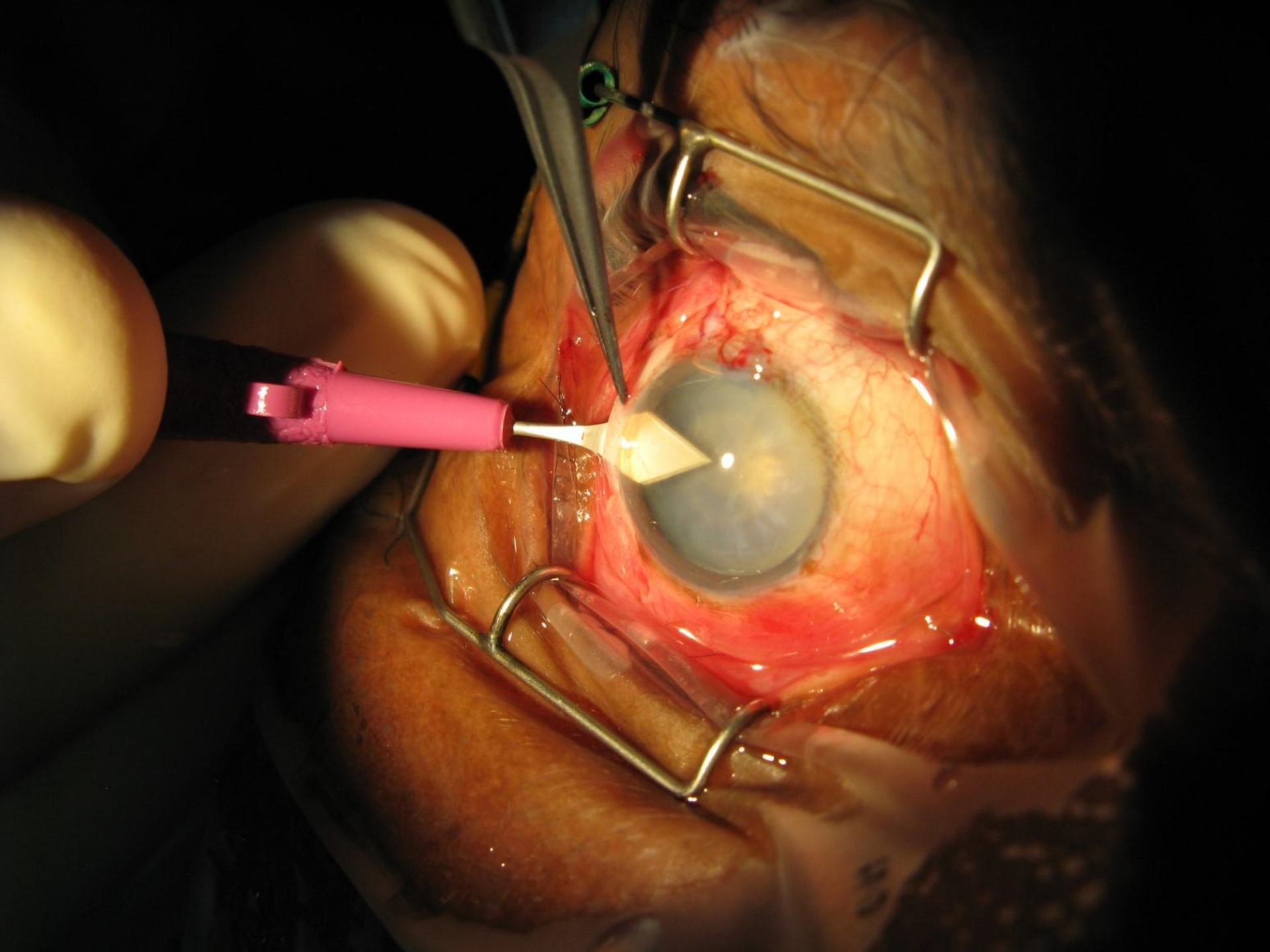


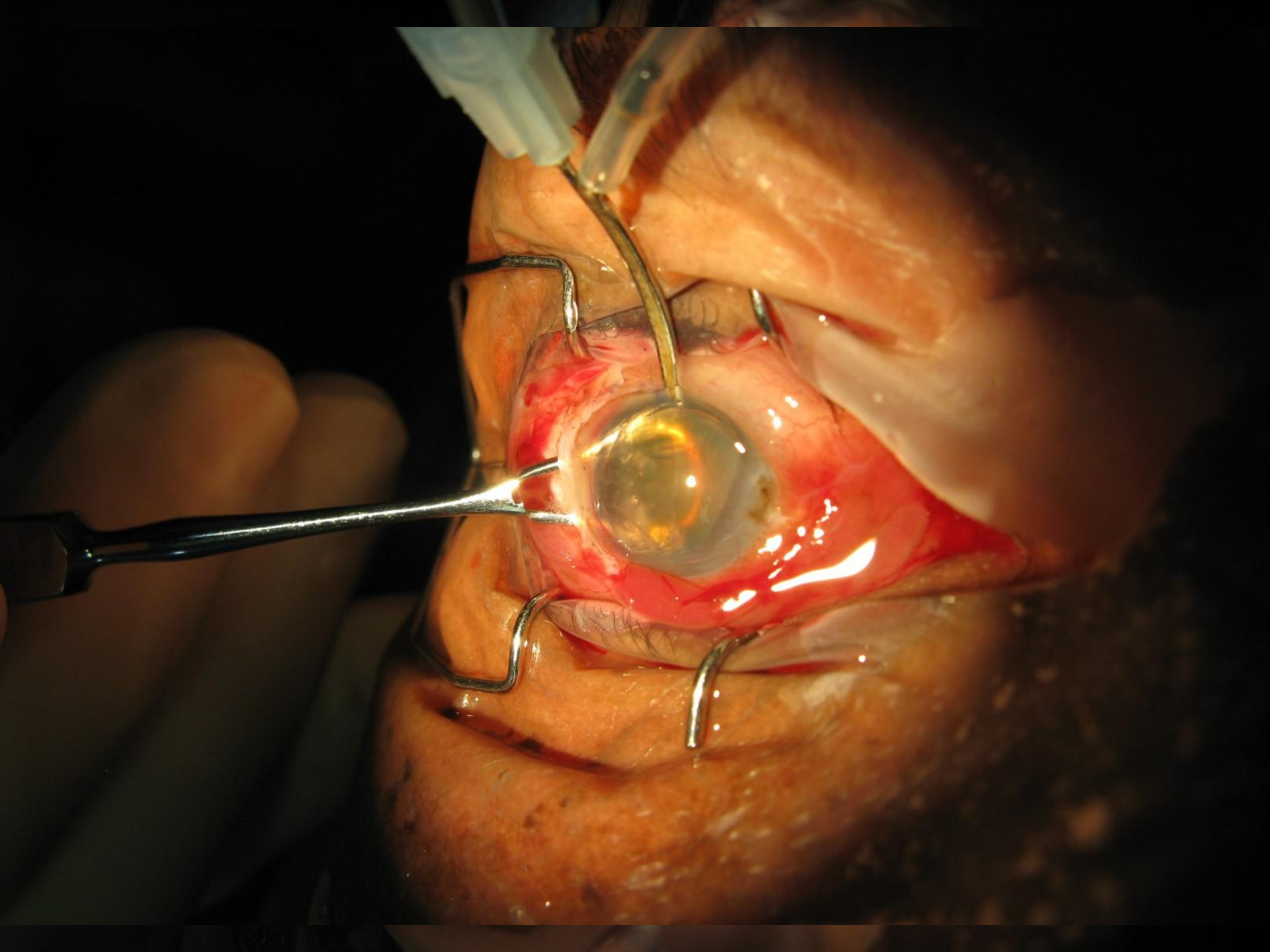
Current techniques for cataract surgery

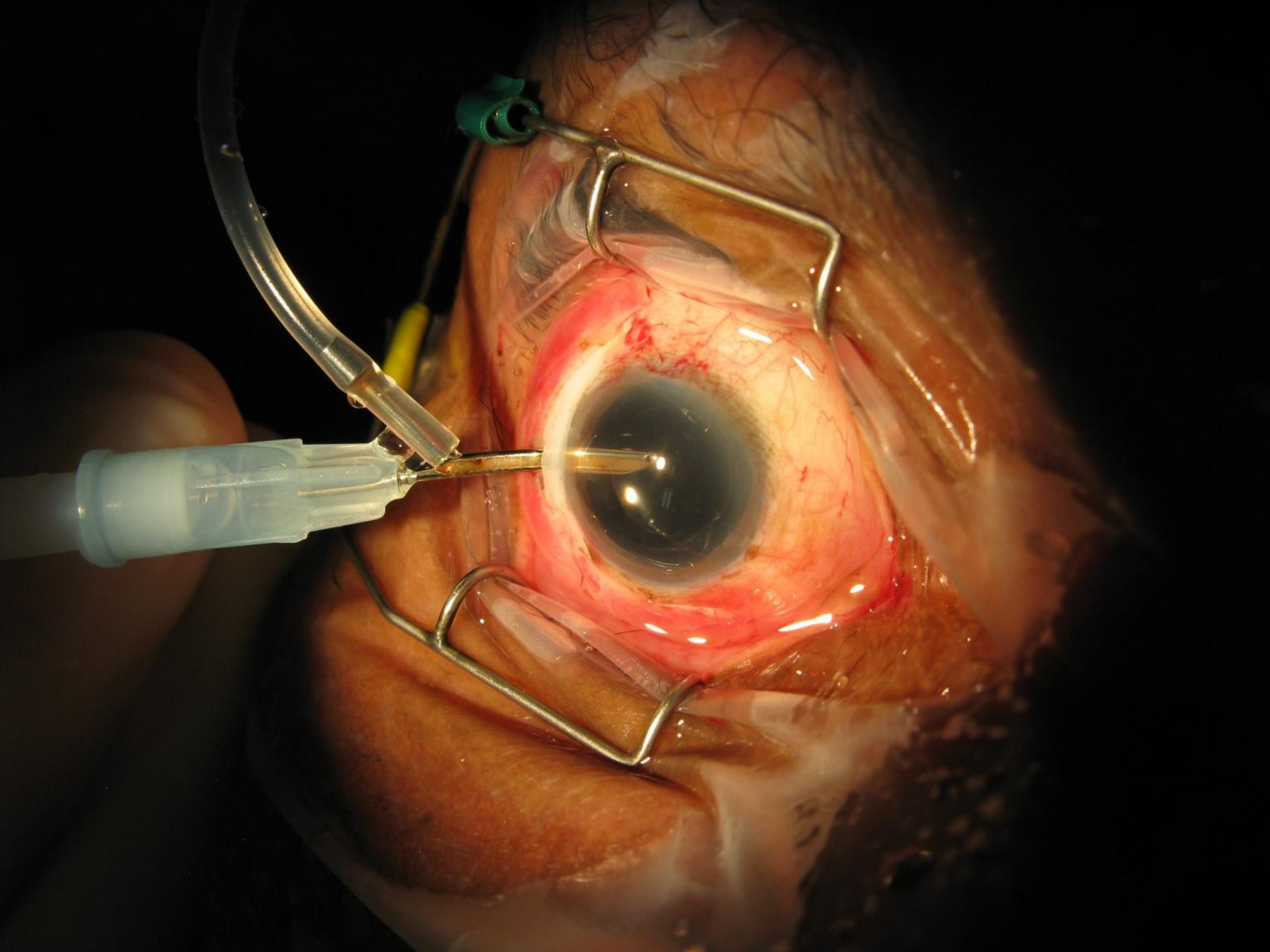
- **Manual**-- Simple equipment low cost larger incision
- **Phacoemulsification**-- with foldable intraocular lens."Keyhole surgery",complicated expensive equipment

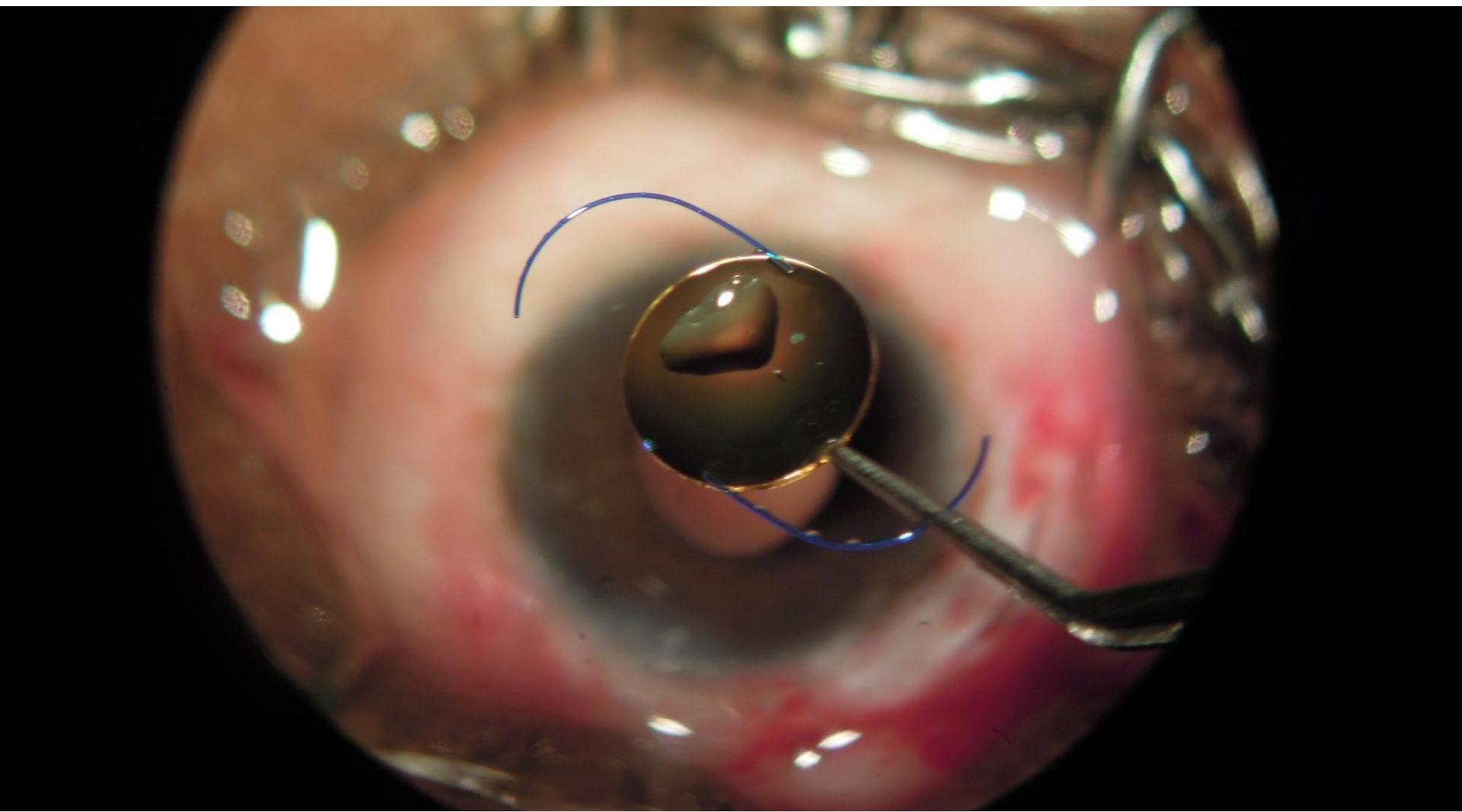


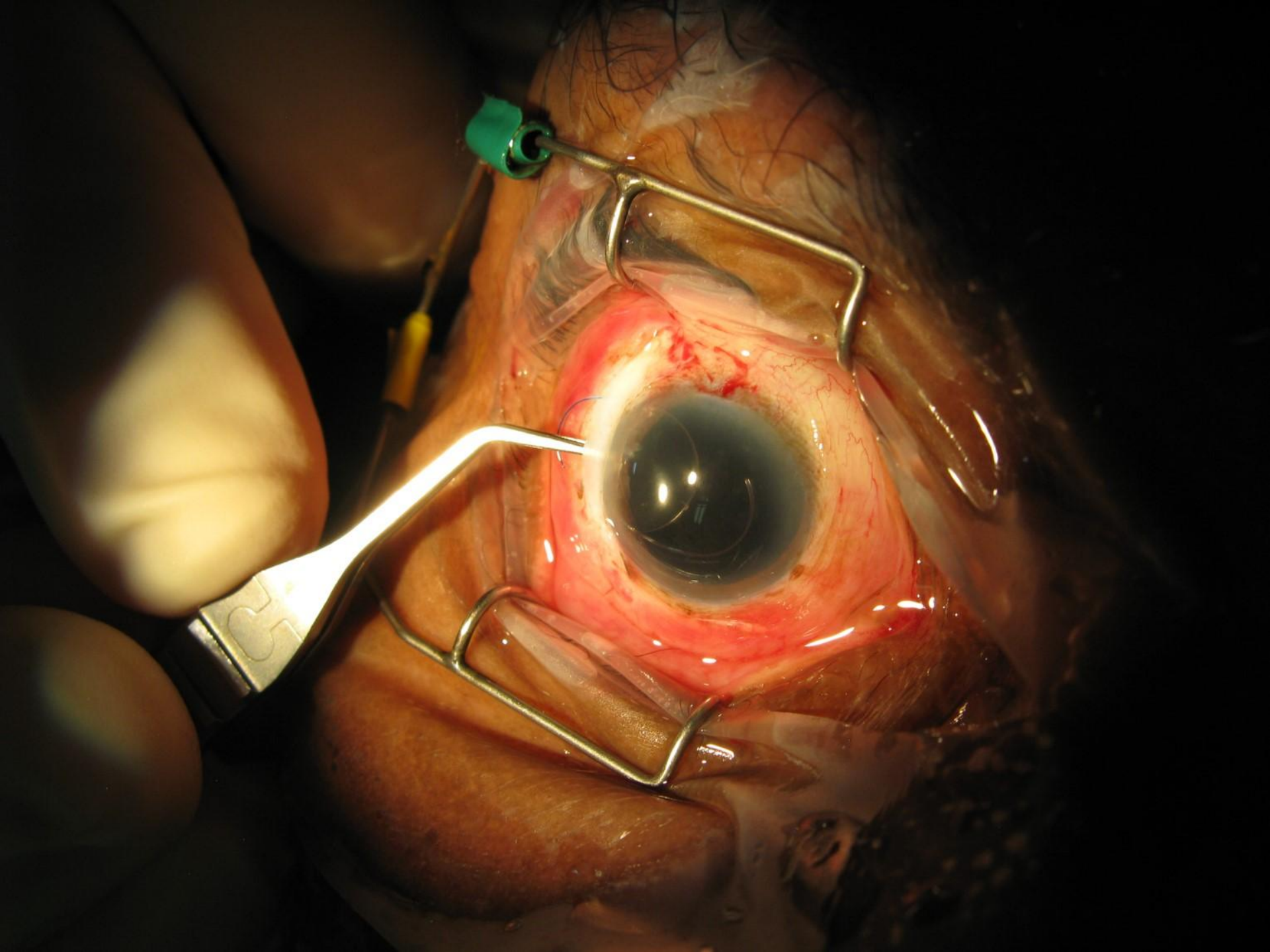








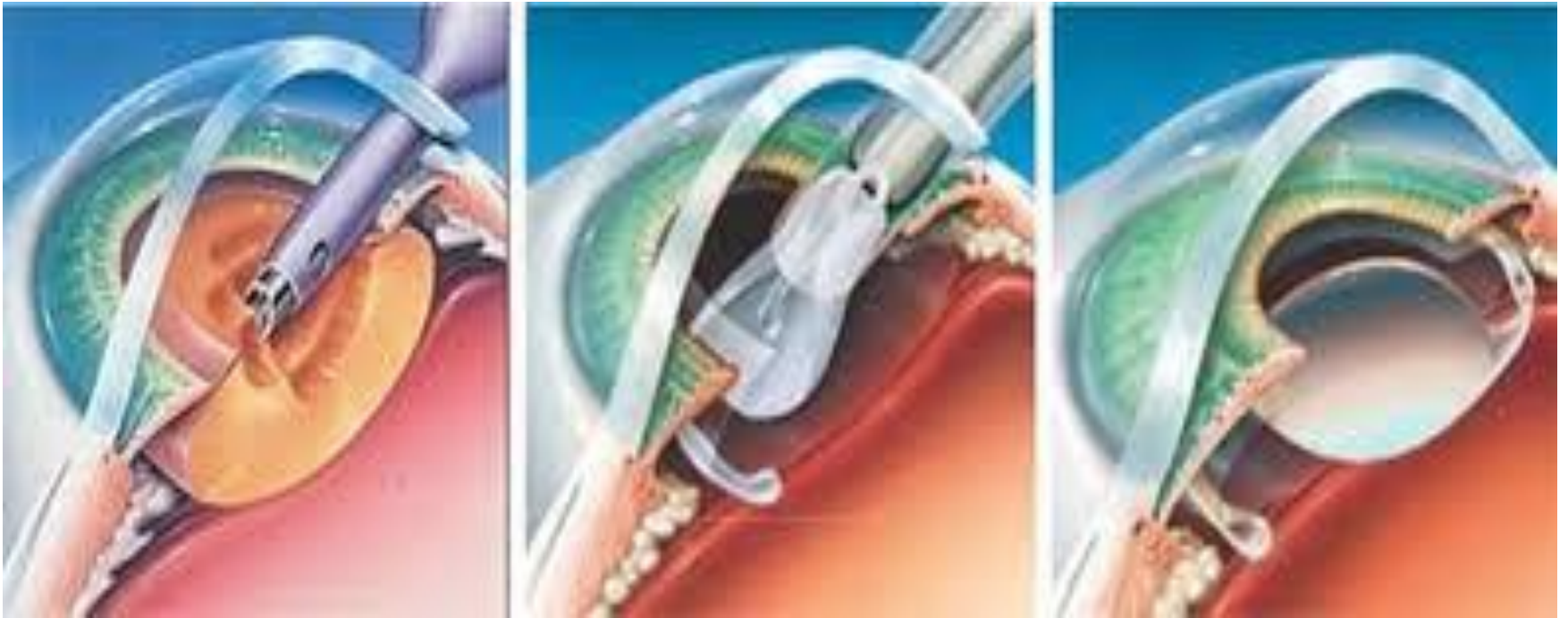








Phacoemulsification with insertion of a foldable Intraocular lens



Phacoemulsification machine



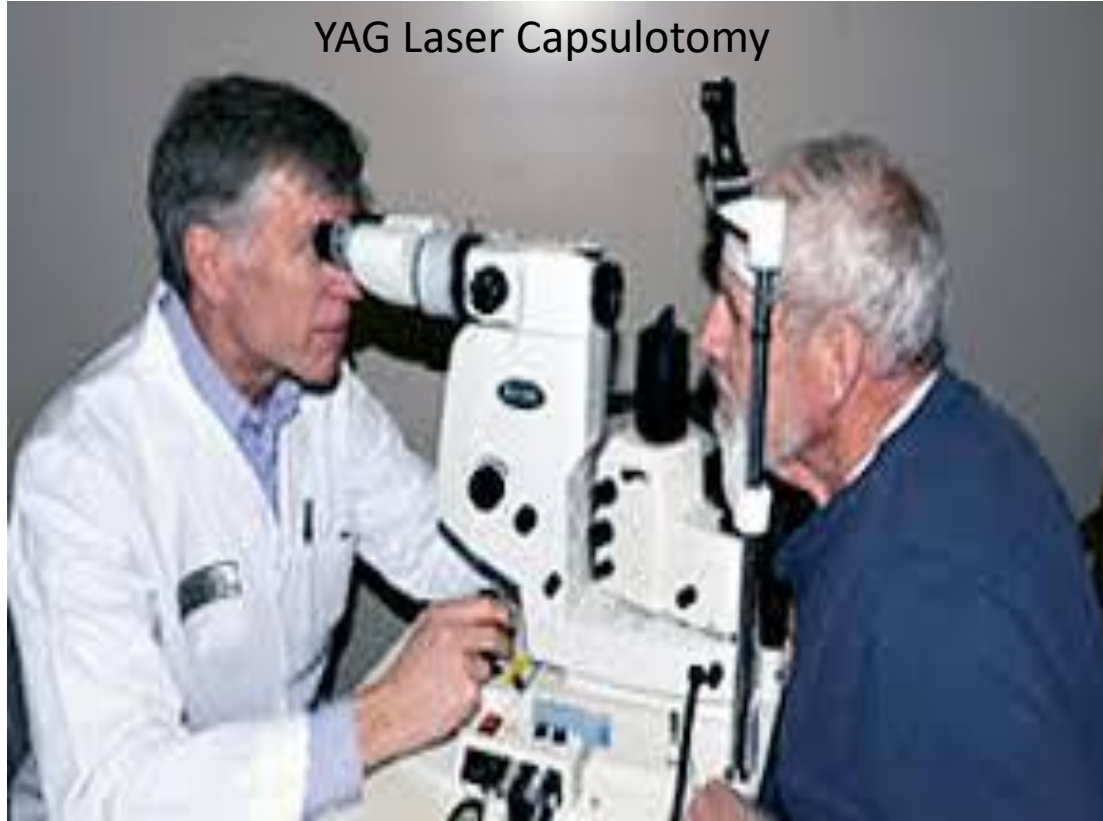


AMERICAN ACADEMY™
OF OPHTHALMOLOGY

Lasers in Cataract Surgery

- YAG laser Capsulotomy-- simple outpatient procedure to remove “after cataract”
- Laser assisted Phacoemulsification-- complex and expensive of limited use not available in NZ

YAG Laser Capsulotomy





Hazy posterior capsule

Derek Kirkland sings about his eye operation at Wellington Hospital 19-02-09



The Eye's Had It

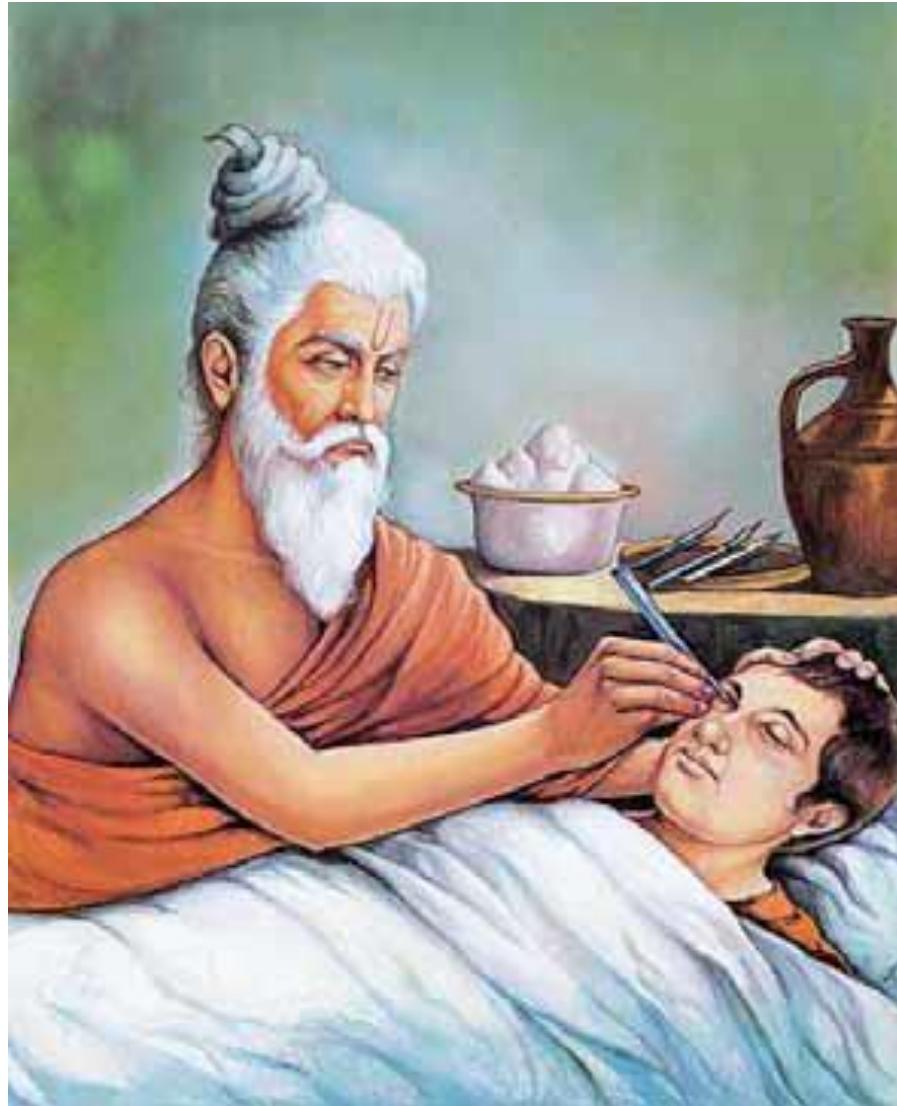
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Thanks to

- Maryann Cowgill librarian Masterton Hospital
- Ian Goodwin
- The NZ Hollows Foundation
- Derek Kirkland musician/patient



Hollows NZ Foundation website

<https://www.hollows.org.nz/contact>

The History of Cataract Surgery

Anaesthesia

- 1842 Ether General Anaesthetic
- 1884 Cocaine eye drops
- 1905 Procaine injection
- 1943 Xylocaine injection

Causes of cataract in adults apart from aging

Ocular

- Trauma
- Inflammation
- Steroid eye drops

Systemic

- Diabetes,smoking,alcohol and radiation[ionising,Infra red and UV-B] hasten the development
- Oral and Inhaled steroids
- Poor nutrition